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software agent a computer program that performs various actions continuously and autonomously on behalf of an individual or an organization for example a software agent may archive various computer files or retrieve electronic messages on a regular schedule in computer science a software agent is a computer program that acts for a user or another program in a relationship of agency the term agent is derived from the latin agere to do an agreement to act on one's behalf agents represent an exciting and promising new approach to building a wide range of software applications agents are autonomous problem solving entities that are able to flexibly solve problems in complex dynamic environments without receiving permanent guidance from the user software agent technology is a rapidly developing area of research application domains in which agent solutions are being applied or researched into include workflow management telecommunications network management air traffic control business process intelligent agent technology is a rapidly developing area of research however in reality there is a truly heterogeneous body of work being carried out under the agent banner in this paper software agent technology is introduced by briefly in this paper we review the software agent technology applications in communications with more emphasis on mobile agents since it is an emerging agent technology the introductory chapter in huns and singh agents and multiagent systems themes approaches and challenges offers a detailed taxonomy of agents a brief survey of applications and a review of technology under the headings of architectures and infrastructure models of agency and future directions and challenges the authors clarify the potential application of software agent technology in legacy and future communications systems and provide an overview of publicly available research on software agents used for communications management examples of how others have applied formal methods to agent based systems are included plus formal method tools techniques that readers can apply to their own systems agent technology from a formal perspective provides an invaluable in depth view of the key issues related to agent technology from a formal perspective for both researchers the wiley series in agent technology is a series of comprehensive practical guides and cutting edge research titles on new

developments in agent technologies the series focuses on all aspects of developing agent based applications drawing from the internet telecommunications and artificial intelligence communities with a strong a traffic optimization system based on agent technology and fuzzy logic that aims to manage road traffic prioritize emergency vehicles and promote collective modes of transport in smart cities and can significantly increase the efficiency of the traffic regulation system agent technology foundations applications and markets is the first book to provide an integrative presentation of the issues challenges and success of designing building and using agent technology has emerged in the last years as a new and promising paradigm focused on the modelling design and development of complex systems it has become a leading area of research in artificial intelligence ai and the focus of a number of major initiatives 2 3 4 agent technology is a rapidly growing subdiscipline of computer science on the borderline of artificial intelligence and software engineering that studies the construction of intelligent systems it is centered around the concept of an intelligent rational autonomous agent the agent computing paradigm is rapidly emerging as one of the powerful technologies for the development of largescale distributed systems to deal with the uncertainty in a dynamic environment this survey focuses exclusively on the technology applications in the automation of continuous industrial processes as the differences in the technology adoption between the process automation and manufacturing are significant recent development in agent technology provides new and interesting potentials of innovative scm in this chapter we first review inter organizational systems that support scm and the major challenges faced with supply chains sam altman says helpful agents are poised to become ai s killer function open ai s ceo says we won t need new hardware or lots more training data to get there a number of moments from my an agent is a program that collects information or performs a task in the background at a particular schedule the term agent is often thought of as a software abstraction that is capable of acting with a certain degree of autonomy to perform a particular task on behalf of its host building effective and user friendly transportation systems is one of the big challenges for engineers in the 21st century traffic and transportation scenarios are extraordinarily appealing for distributed artificial intelligence and multi agent technology in particular

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